



ASSESSMENT MATERIAL EVIDENCE GUIDE

Qualification

Biogas Plant
Supervisor Floating
Drum

CS Code:

Level: 3

Credit: 13

Version: 1

SUPERVISE THE CONSTRUCTION OF STRUCTURAL COMPONENT OF A FLOATING DRUM BIO-DIGESTER

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ASSESSMENT AND ASSESSOR DETAILS

Competent

☐

Not Yet Competent

☐

Assessment

☐

Re-Assessment

☐

Assessor's Name

Assessor's Code

Assessor's Signature

Date

DD		MM		YYYY					

CANDIDATE DETAILS

Candidate's Name

First Name

Last Name

Father's Name

Institute Name and District

CNIC/BFORM #

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Registration Number issued by
Assessment Body

Gender

Male

☐

Female

☐

Transgender

☐

Candidate's Consent

I agree to the time and date of the assessment and am aware of the requirements of the assessment. I fully understand my rights of appeal.

Candidate's Signature

ASSESSMENT RESULTS SUMMARY FORM

You can use this coversheet as an *Assessment Results Summary Form*. Simply post a photocopy of this completed coversheet to NAVTTC

NAVTTC OFFICE ONLY

1. DATE
FORM

RECEIVED:

DD		MM		YYYY					

2. DATE ENTERED INTO
DATABASE:

DD		MM		YYYY					

1

ASSESSMENT SUMMARY & RECORD

ACTIVITY	METHOD				DESIRED OUTCOMES	RESULT	
NATURE OF ACTIVITY	WRITTEN	ORAL	PORTFOLIO	OBSERVATION	DESIRED OUTCOMES FOR SUCCESSFUL ASSESSMENT OF COMPETENCY STANDARD: SUPERVISE THE CONSTRUCTION OF STRUCTURAL COMPONENT OF A FLOATING DRUM BIO-DIGESTER	COMPETENT	NOT YET COMPETENT
Practical Skill Demonstration				✓	Supervise the construction of structural component of a floating drum bio-digester of biogas plant.		
Knowledge Assessment	✓	✓			Answer all questions your Assessor may have during the practical assessment.		
Other Requirements			✓		N/A		

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CANDIDATE ASSESSMENT

Candidate's Name..... Father's Name

ALL WORK ASSESSED IN THIS COMPETENCY STANDARD MUST BE YOUR OWN WORK.

GUIDANCE TO CANDIDATE

To meet this standard you are required to complete the following tasks within **two hours** timeframe:

- Supervise the construction of bio-digester and install floating drum of biogas plant
- Supervise the construction of inlet, mixing tank, slurry collection and composting pit of the biogas plant

Important Note: The following general performance criteria will be followed and performed in all the tasks (where applicable by the candidate in order to meet this standard:

- Follow precautionary procedures as per requirements of the given tasks
- Select, use and maintain equipment/ tools as per requirement of the task
- Report to supervisor in case of any emergency after taking necessary actions
- Complete the work by following sequence of the operations
- Perform task(s) within standard timeframe

ACTIVITIES	CANDIDATE RESPONSE
1. Complete practical task of supervising the construction of structural component of a floating drum bio-digester under observation by an assessor	During a practical assessment, under observation by an assessor, I will correctly : • Supervise the construction of bio-digester and install floating drum of biogas plant ✓ Select site for the construction of floating drum bio-digester of biogas plant ✓ Monitor the excavation of pit and preparation of mortar of floating drum bio-digester of biogas plant ✓ Observe the preparation of base of the floating drum bio-digester and construction of foundation ✓ Monitor the construction of digester (floating drum), baffles, plaster of walls and fixing of inlet and outlet pipes for the construction of floating drum bio-digester of the biogas plant ✓ Supervise the preparation of scaffolding and formworks for erecting floating drum bio-digester of the biogas plant ✓ Monitor the installation of central, internal and external guide frame and support ledge for floating drum bio-digester of biogas plant ✓ Monitor the installation of floating drum for bio-digester of biogas plant and removal of scaffolding and framework • Supervise the construction of inlet, mixing tank and slurry collection and composting pit of the biogas plant ✓ Monitor the construction of platform and walls of inlet tank for floating drum bio-digester of the biogas plant ✓ Monitor the preparation and plaster of inlet tank and fixing of mixing devices for floating drum bio-digester of biogas plant ✓ Select location for slurry collection and composting pit for floating drum bio-digester of biogas plant ✓ Monitor the construction of walls and roof of the slurry collection and composting pit for floating drum bio-digester of biogas plant • General Performance Criteria ✓ Follow precautionary procedures as per requirements of the given tasks ✓ Select, use and maintain equipment/ tools as per requirement of the task ✓ Report to supervisor in case of any emergency after taking necessary actions ✓ Complete the work by following sequence of the operations ✓ Perform task(s) within standard timeframe

2. Other requirements	• N/A
3. Answer any questions your assessor may have during the practical assessment	My answers to questions are correct and demonstrate my understanding of the topics and their application.

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ASSESSOR JUDGEMENT GUIDE

Candidate's Name Father's Name.....

INSTRUCTIONS FOR ASSESSOR

This section contains minimum evidence requirements. Oral questioning may be used to clarify candidate understanding of the topic and its application.

ACTIVITIES	MINIMUM EVIDENCE REQUIRED	YES	NO	ASSESSOR COMMENTS
1. Complete practical task of supervising the construction of structural component of a floating drum bio-digester under observation by an assessor	During a practical assessment, under observation by an assessor, the candidate correctly carried out the following tasks:			
Supervise the construction of bio-digester and install floating drum of biogas plant	Selected site for the construction of floating drum biodigester of biogas plant			
	Monitored the excavation of pit and preparation of mortar of floating drum biodigester of biogas plant			
	Observed the preparation of base of the floating drum biodigester and construction of foundation			
	Monitored the construction of digester (floating drum), baffles, plaster of walls and fixing of inlet and outlet pipes for the construction of floating drum bio-digester of the biogas plant			
	Supervised the preparation of scaffolding and formworks for erecting floating drum bio-digester of the biogas plant			
	Monitored the installation of central, internal and external guide frame and support ledge for floating drum bio-digester of biogas plant			
	Monitored the installation of floating drum for bio-digester of biogas plant and removal of scaffolding and framework			
Supervise the construction of inlet, mixing tank and slurry collection and composting pit of the biogas plant	Monitored the construction of platform and walls of inlet tank for floating drum biodigester of the biogas plant			
	Monitored the preparation and plaster of inlet tank and fixing of mixing devices for floating drum biodigester of biogas plant			
	Selected location for slurry collection and composting pit for floating drum biodigester of biogas plant			
	Monitored the construction of walls and roof of the slurry collection and composting pit for floating drum biodigester of biogas plant			
General Performance Criteria	Followed precautionary procedures as per requirements of the given tasks			
	Selected, used and maintained equipment/ tools as per requirement of the task			
	Reported to supervisor in case of any emergency after taking necessary actions			
	Completed the work by following sequence of the operations			
	Performed task(s) within standard timeframe			
2. Other requirements	N/A			

3. Answer any questions the assessor may have during the practical assessment	Candidate's answers to questions are correct and demonstrate understanding of the topics and their application. Assessor to document below all questions asked and candidate answers. Use extra sheets if required and attach.			
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LIST OF TOOLS, EQUIPMENT, MATERIAL AND CONTEXT OF ASSESSMENT

INSTRUCTIONS	This section contains information regarding; - Context of the assessment - List of required tools and equipment. - List of consumable items required during the service
1. Context of Assessment	This task will be performed in real time environment.

2. List of tools and equipment required (for five candidates)		
S. No	Items	Quantity
1	Personal protective equipment (PPE)	05
2	Measuring tap	05
3	Plumb- bob	05
4	Water level	05
5	Mason's Trowel	05
6	Plastering trowel	05
7	Pointing trowel	05
8	Pick axe with handle	05
9	Wheel barrow	05
10	Chisel sets 9" and 12"	05
11	Mason's hammer	05
12	Templates	05
13	Straight edge	05
14	Thread roll	05
15	Lime powder for layout chalking	5kg
16	Iron trough/mortar pan	05
17	Spirit level	05
18	Brushes (wire brush, painting brush)	05
19	Shovel with handle	05
20	Builders square	05
21	Lines and pins	05
22	Striker for horizontal and vertical joints	05
23	Steel float – small, medium and large	05
24	Wooden float – small, medium and large	05
25	Mason's Tool bag	05
26	Helmet	05
27	Dungaree (Working uniform)	05
28	Safety belt	05
29	Boots	05
30	Gloves	05
31	Rain coats	05

3. List of consumable items required (for five candidates)		
S. No	Items	Quantity
1	Plastic Gloves (Pairs)	05